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<b>(21) International Application Number:</b> PCT/EP98/04219 <b>(22) International Filing Date:</b> 2 July 1998 (02.07.98) <b>(30) Priority Data:</b> 60/053,211 21 July 1997 (21.07.97) US 9704170-1 14 November 1997 (14.11.97) SE <b>(71) Applicant (for all designated States except US):</b> PHARMACIA & UPJOHN AB [SE/SE]; S-112 87 Stockholm (SE). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> <del>SOEGAARD, Morten</del> [DK/DK]; Rysensteensgade 16, DK-1564 Kopenhagen (DK). <del>ABRAHMSEN, Lars</del> [SE/SE]; Lillangsgatan 28, S-168 58 Bromma (SE). <del>LANDO, Peter</del> [SE/SE]; Carl Gustavs vag 26 A, S-211 46 Malmo (SE). <del>FORSBERG, Göran</del> [SE/SE]; Kulgranden 15A, S-226 49 Lund (SE). <del>KALLAND, Terje</del> [NO/SE]; Domberrevagen 4, S-246 32 Løddköpinge (SE). <del>DOHLSTEN, Mikael</del> [SE/SE]; Gerdagatan 12B, S-223 62 Lund (SE). <b>(74) Agent:</b> MAZZINI, Giuseppe; Pharmacia & Upjohn S.p.A., Viale Pasteur, 10, I-20014 Nerviano (IT).		<b>(81) Designated States:</b> AU, BG, BR, CA, CN, CZ, HU, ID, IL, JP, KR, MX, NO, NZ, PL, RO, SG, SI, UA, US, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
<b>(54) Title:</b> DIRECTED CYTOLYSIS OF TARGET CELLS, AGENTS AND COMPOSITIONS CAUSING CYTOLYSIS, AND COMPOUNDS THAT CAN BE USED TO PRODUCE THE AGENTS <b>(57) Abstract</b> <p>A method for inactivating target cells in the presence of T cells by bringing the two types of cells in contact with a superantigen (SAG) in the presence of an immune modulator, characterized in that at least one of the superantigen and the immune modulator is in the form of a conjugate between a "free" superantigen (Sag) and a moiety targeting the conjugate to the target cells. A superantigen conjugate complying with the formula (I): (T)<sub>x</sub>(Sag)<sub>y</sub>(IM)<sub>z</sub>; a) T is a targeting moiety, Sag corresponds to a free superantigen, IM is an immune modulator that is not a superantigen and T, Sag and IM are linked together via organic linkers B; b) x, y and z are integers that typically are selected among 0-10 and represent the number of moieties T, Sag and IM, respectively, in a given conjugate molecule, with the provision that y &gt; 0 and also one or both of x and z &gt; 0. The superantigen conjugate is preferably a triple fusion protein. A targeted immune modulator, characterized in that it is a conjugate between a targeting moiety (T'') and a modified immune modulator (IM''). The conjugate complies with a formula analogous to formula (I) except for the imperative presence of the modified immune modulator. A superantigen moiety may be present. A DNA molecule encoding a superantigen and an immune modulator.</p>		

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